

Volume 5 No. 10

Wilmington, NC

October 1990

### October Meeting Announcement

Sunday October 7, 1990 7:00 PM Bryan Auditorium Morton Hall UNCW Campus

The next meeting of the Cape Fear Astronomical Society will be held on Sunday October 7, 1990 in the Bryan Auditorium of Morton Hall on the UNCW Campus. The Business meeting will begin at 7:00 PM EDT.

The general meeting will begin at 7:30 PM. The program for this months general meeting will be a presentation on the planet *Saturn* by society member Paul Walker.

# Meeting Minutes from September

Sunday September 9, 1990

Martin Best called the meeting of the Cape Fear Astronomical Society to order at 7:10pm.

John Marshall said that he and Paul Petty went to Hampstead and worked on the site for several hours. They got a lot of work done but need to do a little more later. He also mentioned that the large doors were found open again. Perhaps the wind may have blown them open. We will have to work on the doors to keep them fastened when we are not using the observing site.

We were informed that we have been asked to do some kind of program at the Fort Fisher Aquarium on the night sky in the near future. John also said what a good time several members had going to Bald Head Island August 18th to hold a public observing session. We have been asked to come back next year.

Ronnie Hawes reminded everyone about the upcoming trip to Goldsboro, NC to attend the meeting of the East Carolina Astronomy Club on Monday September 17th, also the public viewing session on Saturday, September 29th at Hoggard High School, and our exhibit at the Wilmington MarketPlace Mall on the weekend of October 27th and 28th. There was some discussion on prorating of dues. James Picklesimer suggested that we add another wind break inside the Hampstead viewing site.

Ben Steelman, who joined the society tonight, has invited us to give a program on our organization to the Lions Club which Ben is a member of, in the near future.

In the Treasure's report, Wayne Teachy said we have

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### Astronomical League Update

[The following is a summary from the minutes of the Astronomical Leagues annual business and Council meetings. Minutes were provided by R. P. Van Zandt the League Secretary. Please direct questions to the editor or our Alcor.]

The League council meeting was held at 8:15am on August 4, 1990 at the Washington University in St. Louis. Minutes from the 1989 council meeting were reviewed and approved.

The following committee reports were presented:

Executive Secretary: Noted continued improvement it the responces from the member societies. Problems with the USPS in the delivery of all *REFLECTORS* and some problems with first class mail; Asked that the membership report delivery failures to the Executive Secretary. 174 member societies accounting for 10,732 members; marking 42% of all amateur groups are affiliated with the league.

Education Committee: Requested a \$2000 budget (approved) to print 300–500 updated booklets "Gudelines for Astronomy Courses". Demand for this booklet remains strong.

Publication Committee: A new and revised manual "Observing and Understanding the Sun" will be available this September. Funding has been provided by League sales. A budget request of \$700 was approved for a new League Brochure and for the Proceeding of the 1990 convension.

League Sales: Reported a surplus of \$3,000 which was sent to the Leage treasurey. The Sales committee was retaining \$5,000 in checking and accounts receiveable do fund future purchases.

Reflector: reported costs running below budget do to savings the editor had been able to generate. The reflector budget will be keep that same for next year and the "extra" funds will be used to expand coverage.

Treasurey: The 1990-1991 budget of \$29,175 was ap-

#### (September Meeting Minutes from page 1)

\$95.43 in the checking account and \$104.23 in the observatory fund.

After about a 10 minute break, Ronnie gave the evening's program: "Sunsearch: Stars that go Bang in the Night" about his program of observing galaxies for the Sunsearch Network. A group of amateur astronomers who observe galaxies for supernova. A very interesting talk, if I say so myself.

There were 8 members present.

- Ronnie Hawes

# Riverfest Public Viewing Session

October 6th; 10am till 5pm October 7th; Noon till 5pm River Front Park Wilmington, North Carolina

The society has been invited to have a public display as part of the 1990 River festival. The executive committee has decided to accept this invitation.

The society will have a static display near the bottom of Market Streets. This static display will be our usual collection of telescopes and models. It will be reduced in size from our normal mall displays since we will be outside for this display and will need to break down the display Saturday night. We will be setting back up Sunday morning.

Also, since we will be outside for this daytime activity, we will try to do a public viewing session of The Sun; Weather permitting of course.

If you would like more information or to help with this activity please contact the editor (392-4853) for more information.

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proved. Current assets of the League stand at \$56,913; of which \$33,486 is held by the trust fund. There will be no change in dues rates (\$20. plus \$1.55 per capita) for the coming year.

[Ed: Items from old and new business will appear in next months issue.]

#### (Sky Calendar from page 3)

- 18:46 Astronomical twilight ends.

  Comet P/Enke at perihelion. Distance from the Sun
- 18 0.33 au. Monday; Oct 29
  - 5:03 Astronomical twilight begins.
  - 6:27 Sunrise. 17:21 Sunset.
- 18:45 Astronomical twilight ends.
- Edmund Halley born this day in 1656.Mars at ascending node. "Spring" begins for the
- northern hemisphere. Tuesday; Oct 30
- 5:04 Astronomical twilight begins.
- 6:28 Sunrise.
- 17:20 Sunset.
- 18:44 Astronomical twilight ends.
- Wednesday; Oct 31
  - 5:04 Astronomical twilight begins.
  - 6:29 Sunrise.
  - 17:19 Sunset.
  - 18:43 Astronomical twilight ends.
  - 19:00 Current Julian date is 244 8195.5

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#### Sky Calendar for October 1990

(All times are given in Eastern Time. Times preceded with the "±" symbol are ±30 minutes of the time listed.)

	(In this are given in Eastern 1	nic. mii	es preceded with the I symbol a	ue 130 I	initiates of the time listea.)
Monday.	Oct 1	Wednes	day; Oct 10	5:55	Astronomical twilight begins.
	Astronomical twilight begins.	5:48	Astronomical twilight begins.	7:19	Sunrise.
7:05		7:11		18:32	Sunset.
18:55	Sunset.	18:43	Sunset.	19:55	
20:18		20:06	Astronomical twilight ends.		v; Oct 20
Tuesday,		23:21	Moon at last quarter.		Astronomical twilight begins.
	Astronomical twilight begins.		y; Oct 11	7:20	Sunrise.
7:05			Astronomical twilight begins.	±8:00	Mars is stationary in right ascension;
18:54		7:12		10.20	begins retrograde motion.
	Astronomical twilight ends.	18:42	Sunset. Astronomical twilight ends.	18:30 19:54	Sunset.
	Astronomical twilight begins.	20.04	Wally Schirra; Donn Eisele; and Walt		Astronomical twilight ends. Orionids Meteors. The radiant is lo-
	Sunrise.		Cunningham make the first space		cated at right ascension 6:20; declina-
18:52	Sunset.		flight test of the Apollo Command and		tion +15°; ZHR varies between 10
20:15	Astronomical twilight ends.		Service Modules on this date in 1968.		and 70. Fast moving 67 km/sec many
	Andromedids Meteor. This stream is	Friday;	Oct 12		different colors but faint. Derived
	sometimes refered to as the Epsolon	5:50	Astronomical twilight begins.		from Comet Halley.
	Piscids. The radiant is located near	7:13	Sunrise.	Sunday;	
	right ascension 00:20; declination	±16:00		5:57	Astronomical twilight begins.
	+8°; slow moving; red in color; ZHR		Occultation.	7:20	
	about 1 or 2.	18:40	Sunset.	18:29	Sunset.
No the American Contract of	First successful flight test of a V-2 rocket made on this date in 1942.	20:03 Saturdan	Astronomical twilight ends.	19:53	Astronomical twilight ends.
Thursday			Astronomical twilight begins.	Monday, 0:00	
5.44	Astronomical twilight begins.		Sunrise.	0.00	Mercury is in superior conjunction with the Sun; moves into the evening
7:07	Sunrise.	18:39			sky.
	Full Moon called the "hunters" Moon.		Astronomical twilight ends.	±4:00	Antares passes 0.6° south of the Moon
18:51	Sunset.		Piscids Meteors. The radiant is located		Occultation.
20:14	Astronomical twilight ends.		at right ascension 1:44; declination	5:57	
	First Day of Tabernacles		$+14^{\circ}$ ; ZHR = 5; slow moving about 27	7:21	Sunrise.
and the second second	The Soviet Union launches the		km/sec.	±12:00	
	world's first artificial satellite Sputnik	Sunday;		10.00	Earth is 63.6 Earth-radii.
Friday; (	1 on this date in 1957.	5:51 7:15	6 6	18:28	Sunset.
	Astronomical twilight begins.	18:38		19:52 Tuesday	Astronomical twilight ends.
	Sunrise.	20:01	Astronomical twilight ends.	5:58	
18:50	Sunset.		First supersonic flight made on this	7:22	Sunrise.
20:12	Astronomical twilight ends.		date in 1947 by Chuck Yearger in the	18:27	Sunset.
Saturday			X-1 rocket plane.	19:51	
	Astronomical twilight begins.	Monday,	Oct 15	Wednesa	lay; Oct 24
7:08	Sunrise.	5:52	Astronomical twilight begins.	5:59	Astronomical twilight begins.
±14:00	Moon at perigee. Distance from the	7:16		7:23	Sunrise.
18:48	Earth is 57.0 Earth-radii.	18:37		±11:00	
20:11	Sunset. Astronomical twilight ends.	19:59 Tuesday	Astronomical twilight ends.	18:26 19:50	Sunset. Astronomical twilight ends.
Sunday;		5.53	Astronomical twilight begins.		Neptune passes 3° north of the Moon.
5:46	Astronomical twilight begins.	7:16	Sunrise.	Thursday	v: Oct 25
7:09	Sunrise.	18:35	Sunset.		Astronomical twilight begins.
18:47	Sunset.	19:59	Astronomical twilight ends.	7:24	Sunrise.
20:10	Astronomical twilight ends.		lay; Oct 17	±13:00	Saturn passes 1.1° north of the Moon
Monday;		5:54			Occultation.
	Astronomical twilight begins.	7:17	Sunrise.	18:25	Sunset.
7:10 ±15:00	Sunrise.  Mars passes 5° south of the Moon.	18:34 19:58	Sunset.	19:49	Astronomical twilight ends.
18:46	Sunset.	19.36	Astronomical twilight ends.  Epsilon Geminid Meteors. The radiant	Friday; 6:00	
20:08	Astronomical twilight ends.		is located at right ascension 6:50; dec-	7:25	Astronomical twilight begins. Sunrise.
	Columbus Day.		lination +27°; fast moving 70 km/sec.	16:26	Moon at first quarter.
	Draconids Meteor. The radiant is lo-	Thursday	v: Oct 18	18:24	Sunset.
	cated at right ascension 17:28; decli-	5:54		19:48	Astronomical twilight ends.
	nation +54°; speeds slow 21 km/sec.	7:18	Sunrise.	Saturday	
	Drived from comet Giacobini-Zinner;	11:37	New Moon. Lunation number 839	6:01	Astronomical twilight begins.
		18:33	Sunset.	7:26	Sunrise.
	last returned in 1985. Meteoriods trav-		A		
•	el in a swarm close to the comet.	19:56	Astronomical twilight ends.	18:23	Sunset.
	el in a swarm close to the comet. Shower can become a storm in the		First images of the far side of the	18:23 19:47	Astronomical twilight ends.
Tuesday	el in a swarm close to the comet. Shower can become a storm in the year of the comet's return.		First images of the far side of the Moon are made by the Soviet probe	18:23 19:47 Sunday:	Astronomical twilight ends.  Oct 28
Tuesday;	el in a swarm close to the comet. Shower can become a storm in the year of the comet's return.		First images of the far side of the Moon are made by the Soviet probe Luna 3 on this date in 1959.	18:23 19:47	Astronomical twilight ends. Oct 28 Eastern Standard Time returns. Set
5:47	el in a swarm close to the comet.  Shower can become a storm in the year of the comet's return.  Oct 9  Astronomical twilight begins.		First images of the far side of the Moon are made by the Soviet probe Luna 3 on this date in 1959. On this date in 1989 the Atlantis	18:23 19:47 <u>Sunday: 0</u> 2:00	Astronomical twilight ends.  Oct 28  Eastern Standard Time returns. Set your clock back 1 hour.
	el in a swarm close to the comet. Shower can become a storm in the year of the comet's return.		First images of the far side of the Moon are made by the Soviet probe Luna 3 on this date in 1959. On this date in 1989 the Atlantis launched the probe Galileo on it's	18:23 19:47 Sunday:	Astronomical twilight ends. Oct 28 Eastern Standard Time returns. Set
5:47 .7:11	el in a swarm close to the comet.  Shower can become a storm in the year of the comet's return.  Oct 9  Astronomical twilight begins.  Sunrise.		First images of the far side of the Moon are made by the Soviet probe Luna 3 on this date in 1959. On this date in 1989 the Atlantis launched the probe Galileo on it's journy to Jupiter.	18:23 19:47 <i>Sunday:</i> 6 2:00 5:02	Astronomical twilight ends.  Oct 28  Eastern Standard Time returns. Set your clock back 1 hour.  Astronomical twilight begins.

#### Upcoming Events for October

Riverfest public viewing session Saturday October 6 & Sunday October 7

Monthly Meeting of the Cape Fear Astronomical Society Sunday October 7, 1990; 7:00 PM - Bryan Auditorium; Morton Hall

Group Viewing Session Saturday October 13, 1990; Dusk until "?" - Hampstead Site

Group Viewing Session Saturday October 20, 1990; Dusk until "?" - Hampstead Site

> Deadline for the issue of Cape Fear Skies. is October 20, 1990

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